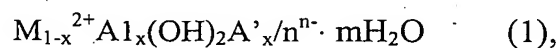


We claim:

1. Polyurethane urea fibers comprised of at least 85% segmented polyurethane urea, wherein the polyurethane urea fibers contain 0.05 to 10 wt.% of hydrotalcite of the formula (1),



wherein

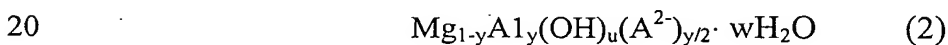
M^{2+} denotes magnesium,

A^{n-} denotes an anion having the valency n and selected from the group consisting of OH^- , F^- , Cl^- , Br^- , CO_3^{2-} , SO_4^{2-} , HPO_4^{2-} , silicate, acetate and oxalate,

$0 < x \leq 0.5$ and

$0 \leq m < 1$

or hydrotalcite of the formula (2)

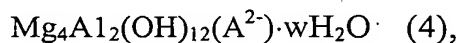


wherein $0.20 < y < 0.35$, u is a number from 1 to 10, w is a number from 0 to 20 and A^{2-} is an anion selected from the group consisting of CO_3^{2-} , SO_4^{2-} or HPO_4^{2-} ,

wherein the hydrotalcites are coated with 0.2 to 15 wt.% of a metal fatty acid salt.

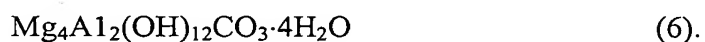
2. Polyurethane urea fibers according to claim 1, wherein said amount of hydrotalcite is 0.5 wt.% to 8 wt.%, based on the weight of the fibers.

3. Polyurethane urea fibers according to claim 2, wherein said amount of hydrotalcite is from 1.5 wt % to 7 wt. %, based on the weight of the fibers.
4. Polyurethane urea fibers according to claim 3, wherein said amount of hydrotalcite is from 2 wt. % to 5 wt. %, based on the weight of the fibers.
5. Polyurethane urea fibers according to claim 1 or 2, wherein said hydrotalcite is a hydrotalcite of the formulae (3) or (4):



in which A^{2-} and w have the meanings given above in formula (2).

6. Polyurethane urea fibers according to claim 5, wherein said hydrotalcite is a hydrotalcite of the formulae (5) or (6):



7. Polyurethane urea fibers according to claim 1 or 2, wherein said hydrotalcite is coated with said metal fatty acid salt in an amount of from 0.2 to 15 wt.%, based on the weight of the hydrotalcite.
8. Polyurethane urea fibers according to claim 7, wherein said amount is from 0.3 to 12 wt.%, based on the weight of the hydrotalcite.
9. Polyurethane urea fibers according to claim 8, wherein said amount is from 0.5 to 8 wt.%, based on the weight of the hydrotalcite.

10. Polyurethane urea fibers according to claim 1 or 2, wherein said metal fatty acid salt is a metal fatty acid salt of a metal selected from main groups I to III of the Periodic System, or zinc, the fatty acid is a saturated or unsaturated fatty acid that contains at least 6 to at most 30 carbon atoms and said metal fatty acid salt is monofunctional or bifunctional.
5
11. Polyurethane urea fibers according to claim 10, wherein said metal fatty acid salt is selected from the group consisting of: lithium, magnesium, calcium, aluminum and zinc salts of oleic, palmitic or stearic acid.
10
12. Polyurethane urea fibers according to claim 11, wherein said metal fatty acid salt is magnesium stearate, calcium stearate or aluminum stearate.
13. Polyurethane urea fibers according to claim 12, wherein said metal fatty acid salt is magnesium stearate.
15
14. Polyurethane urea fibers according to claim 1 or 2, wherein the hydrotalcite coated with metal fatty acid salt has a mean diameter (numerical mean) of at most 5 μm .
20
15. Polyurethane fibers according to claim 14, wherein said mean diameter is at most 3 μm .
16. Polyurethane fibers according to claim 15, wherein said mean diameter is at most 1 μm .
25
17. Process for the production of the polyurethane urea fibers of claim 1 or 2, in which a long-chain synthetic polymer containing at least 85% segmented polyurethane is dissolved in an organic solvent, in an amount of 20 to 50 wt.% based on the weight of the polyurethane urea composition, and this solution is then spun through spinnerets by the dry or wet spinning process
30

into filaments, wherein a hydrotalcite coated with a metal fatty acid salt is added in an amount of 0.05 wt.% to 10 wt.%, based on the weight of the polyurethane urea fiber, to the spinning solution and is distributed within the filaments and/or on the filament surface.

5

18. Process of claim 17, wherein said organic solvent is dimethylacetamide, dimethylformamide or dimethylsulfoxide.

10

19. Process of claim 17, wherein said amount of solvent is 25 to 45 wt.% based on the weight of the polyurethane urea composition.

15

20. Process of claim 17, wherein said amount of hydrotalcite coated with a metal fatty acid salt is from 0.5 wt.% to 8 wt.%, based on the weight of the polyurethane urea fiber.

20

21. Process of claim 20, wherein said amount of hydrotalcite coated with a metal fatty acid salt is from 1.5 wt.% to 7 wt.%, based on the weight of the polyurethane urea fiber.

25

22. process of claim 21, wherein said amount of hydrotalcite coated with a metal fatty acid salt is from 2 wt.% to 5 wt.%, based on the weight of the polyurethane urea fiber.

23. Knitwear, hosiery or woven goods, comprising the polyurethane urea fibres of claim 1 or 2, optionally mixed with synthetic hard fibers and/or with natural fibers.

30

24. Knitwear, hosiery or woven goods according to claim 23, wherein said synthetic hard fibers are polyamide, polyester or polyacrylic fibers and said natural fibers are wool, silk or cotton.